Video Server

User Manual Ver. 5.0

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Advanced Information

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ETROVISION

About this document

Applied models:

- EV3151
- EV3151 A

This user manual is intended for administrator and/or user of Etrovision EV3151 & EV3151A Video Servers. Operational instructions & network configuration are elaborated. Prior knowledge about network setup and configuration will be helpful.

IMPORTANT

- ✓ Check **PC specification requirements.**
- ✓ Check **OS platform requirements.**
- ✓ Install **EtroStation™ 3.0** software before you start working with video server.
- ✓ Read special notes and important configuration information.

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1. PRODUCT OVERVIEW

EV3151 & EV3151A are stand-alone video/audio streaming servers designed for professional IP surveillance applications. With embedded web viewer, streaming video/audio over network can be accessed like browsing a website.

Both EV3151 & EV3151A are capable of encoding H.264/MJPEG/MPEG4 streaming, allowing perform simultaneous dual stream.

Combination of dual-stream

Format	Stream1	Stream2
H.264		
MJPEG		
MPEG4		

Major differences are…

Features	EV3151	EV3151A
Video Out	X	X
Audio In	N/A	X
Audio Out	N/A	X
PTZ	X	X
DI / DO	N/A	X
Wireless Socket	N/A	X -

Both EV3151 & EV3151A feature the proprietary Etrolink™ config port,

making it the only digital surveillance product in the market with proprietary design for "**Ease-of-use**", "**Reliability**", and "**Manageability**".

PACKAGE &CONTENTS

EV3151 **EV3151A**

- Video server unit X 1
- Power adapter X 1
- USB cable X 1
- Product CD X 1
- Terminal block connector X 1 (EV3151 ONLY)
- Mini DIN cable (EV3151A ONLY)

2. Product CD

Product CD in the package contains the following:

- ✓ EtroStation™3.0 NVR management software
  - o 16CH Live View / Recording / 4CH Playback
- ✓ User Manuals
- ✓ Etrovision Product Brochures

3. BEFORE YOU INSTALL SOFTWARE

- ✓ PC running Microsoft Windows 2000 or Windows XP is only capable of running EtroStation™3.0 software.
- ✓ PLEASE go through EtroStation™3.0 users' manual before installation to check further PC requirements in order to ensure smooth software operation.

4. LANGUAGE SUPPORT

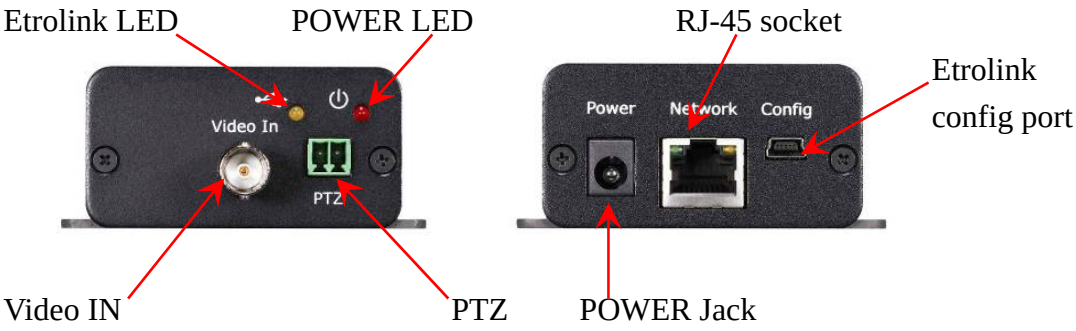
- ✓ ENGLISH

NOTE

EtroStation™3.0 *setup will auto-run when inserting product CD. Pay attention to dialog box questions before you press* ***OK*** *button.*

5. HOUSING and CONNECTORS

EV3151



EV3151A

6. FIRST TIME USE INSTRUCTIONS (*read carefully*)

INSTALL ETROSTATION™3.0

Install **EtroStation™3.0** software. **EtroScan™** is a software utility to find your video server on the network. It is a part of EtroStation™3.0.

WHICH BROWSER TO USE?

We strongly recommend Microsoft IE browser version 6 or higher. Mozilla Firefox and similar others are not guaranteed to work with EV3151 / EV3151A.

POWER ON VIDEO SERVER

Power on video server by using power adapter provided in the product package. Connect power adapter to 110-220v AC socket.

CONNECTING TO NETWORK

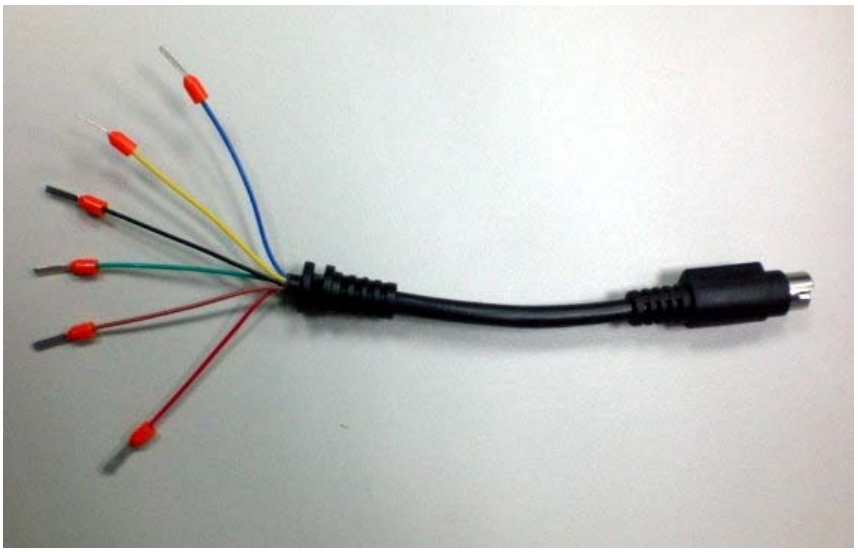
Connect a standard CAT5 Ethernet cable to R45 socket on EV3151 / EV3151A and connect other end to your network hub/switch. Make sure the PC you want to access EV3151 / EV3151A is on the same network domain.

CONNECTING TO ANALOG CAMERA

Connect a standard BNC video cable to BNC connector on EV3151/EV3151A and connect other end to your analog camera (CCTV); EV3151/EV3151A will receive video input signal for streaming encoding.

CONNECTING I/O

One miniDin cable is included in product box, which supports Digital Input, Digital Output and RS485 interface. Pin define as following:



- Blue line : RS485 +
- Green line : RS485 -
- Yellow line : DI +
- Black line : DI -

- Brown line : DO +
- Red line : DO -

FACTORY SETTING - INITIAL IP ADDRESS

IP Address : 192.168.1.2
Gateway : 192.168.1.1

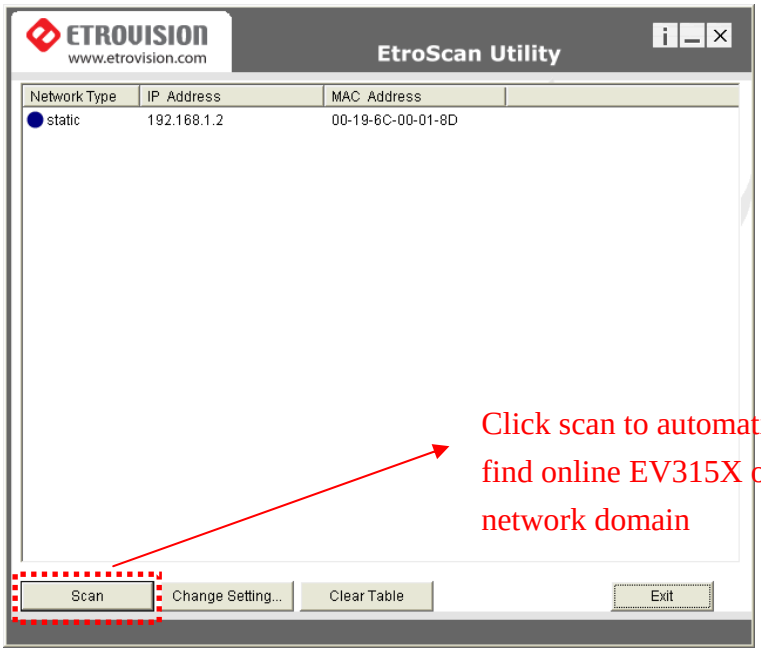
NETWORK DOMAIN

Change the IP of the PC you want to access EV3151 / EV3151A inline with 192.168.1.2. You can change the video server IP later as per your convenience using **EtroScan™** as described below.

USING ETROSCAN™

EtroScan™ software is the quickest way to make sure we can find EV3151 / EV3151A on your network. **EtroStation™3.0** setup will install two applications. You can see as shown below.

Select **EtroScan™.** The following window appears after you select "**EtroScan™**" from start menu.

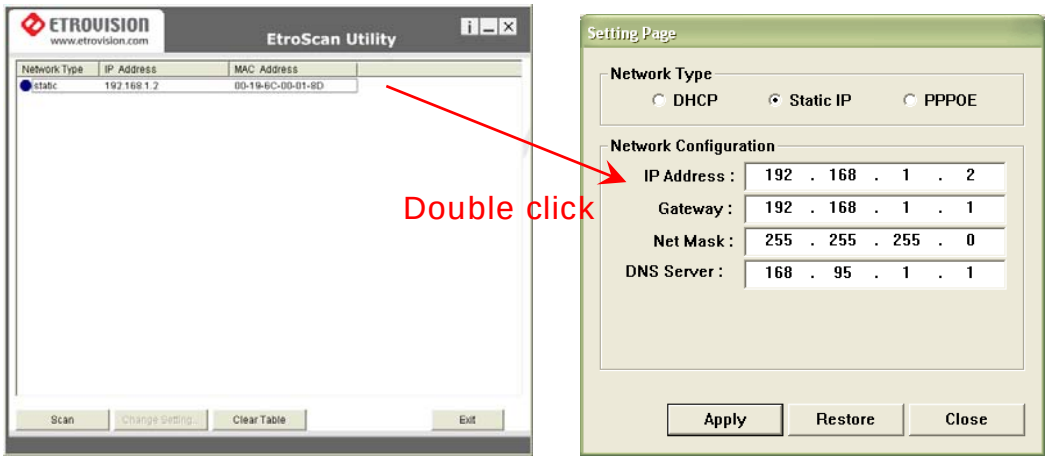


Press **Scan** button to list the IP and MAC address table. To refresh, press **Clear Table** and press **Scan** again.

You will find the list of IP and MAC address listed. To identify your EV3151 / EV3151A you can flip over the video server and on the bottom side you check the label for MAC address.

CHANGE NETWORK SETTINGS BY ETROSCAN™

You can double click a specific IP address and change some basic network parameters. A dialog box will appear as follows.



Change any settings you want to make and make sure you have correct values in all fields. Click **Apply**.

Within 10 seconds, the dialog box should disappear to indicate new settings are accepted and being applied. Wait for around 30 seconds, before trying to refresh IP list. Click **Clear Table** and click **scan** again.

You should be able to find MAC address of video server under new IP address. EV3151 / EV3151A is online on your network. Use **ping** command from Windows command prompt to double check if IP is reachable.

TIP

"DOUBLE RIGHT CLICK" ADVANTAGE

If you want to quickly open the IP you see on Etroscan™ on your browser, select an IP and do a "double right click" on your mouse/touchpad. You can see the browser window open that IP.

To quit **Etroscan™** anytime, click **Exit**.

7. ACCESS VIDEO SERVER

BROWSER

- Open IE browser
- Type IP address of video server that you found on **EtroScan™** software. For ex. **default IP is 192.168.1.2**
- A popup login dialog will automatically display
- Initial username and password are…

  Login: **root**

  Password: **pass**

  Click **OK** button to go to web view.

INITIAL USERNAME & PASSWORD

Administrator

- Default ID/Password = **root / pass**.
- Only password is changeable for root account.
- Full access right to view, control system settings.

When you log in successfully with root/pass as **administrator**, the viewer screen will display as shown below.

EV3151A Live Viewer (Admin Mode)

EV3131A Live Viewer (Admin Mode)

1. Notice top right corner of viewing page

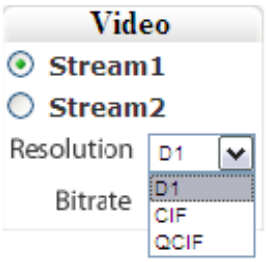
has a toggle button to take you between web configuration page & viewing page. Always click that if you want to move from one page to the other.
2. Several controls options are available on the right side.
3. OSD is displayed on top left corner of the screen (time, date, camera name)

CONTROL PANEL SETTINGS

➢ Video\Resolution

Following table describes resolution values for each video format

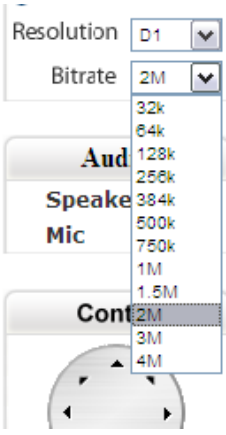
Resolution	CIF	QCIF	D1
NTSC	352X240	176X120	720X480
PAL	352X288	176X144	720X576



➢ Video\Bit rates

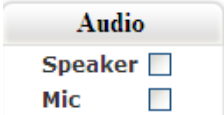
■ Choose a particular value and it is applied within few seconds. Video on the screen will pause briefly.

64K / 128K / 256K / 384K / 500K / 750K / 1M / 1.5M / 2M / 3M / 4M (bps)

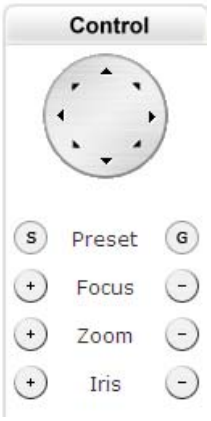


➢ Audio \ Enable check box (only EV3151A)

■ Enable or disable function for audio in & audio out will result in video flicker for a second and then return back to normal. This

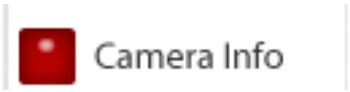


is not an error.



- P/T/Z controls (will need PTZ controller)
  - Preset: preset point set & go defined preset point
  - Focus: adjust camera focus
  - Zoom: control camera zoom ratio
  - Iris: adjust camera IRIS level

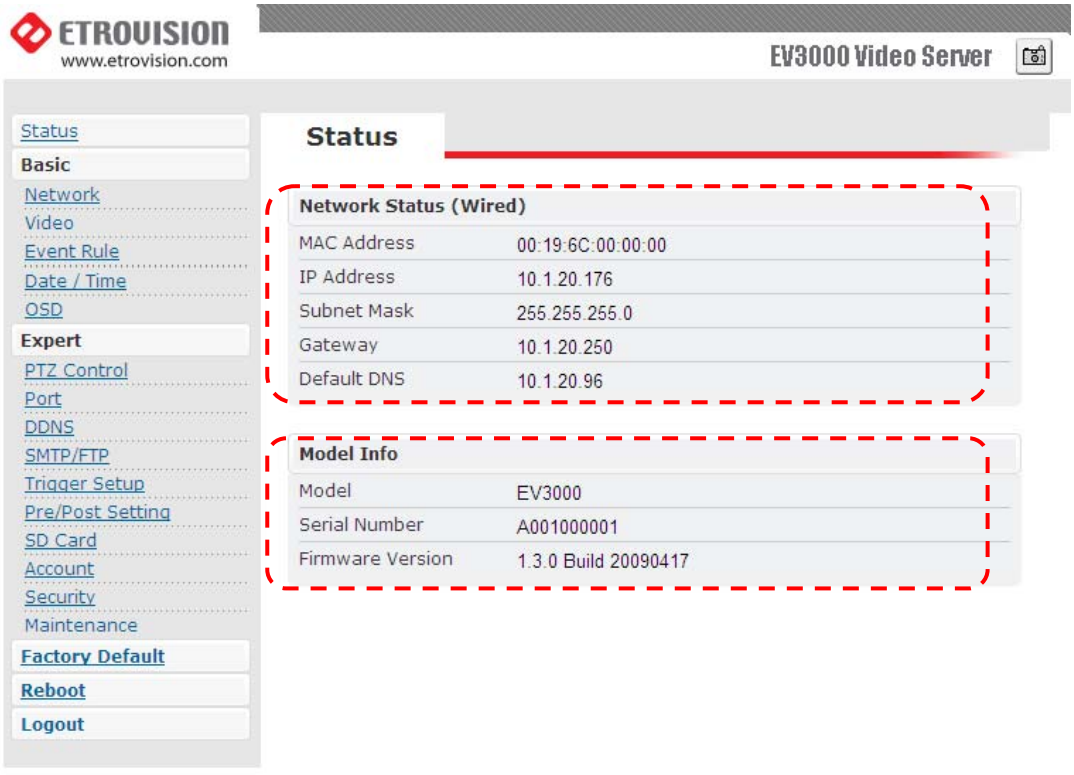
- Camera Information.
  - Shows video information of the transferred data on the upper left corner of the video screen such as frame rate (fps), channel name, resolution.



- Digital Output (only EV3151A)
  - When enabled, DO provide contact close and acts purely as a switch.

8. WEB INTERFACE SETTINGS

EV3151 / EV3151A built-in web interface offers more advanced settings. On the main viewing page, click icon located on top-right side to enter server settings page. It is a toggle button to switch between Config and viewer pages.



STATUS

- Initial view of web Config interface is status page.
- Hardware & Firmware information along with network status such as current IP and related details are clearly shown.

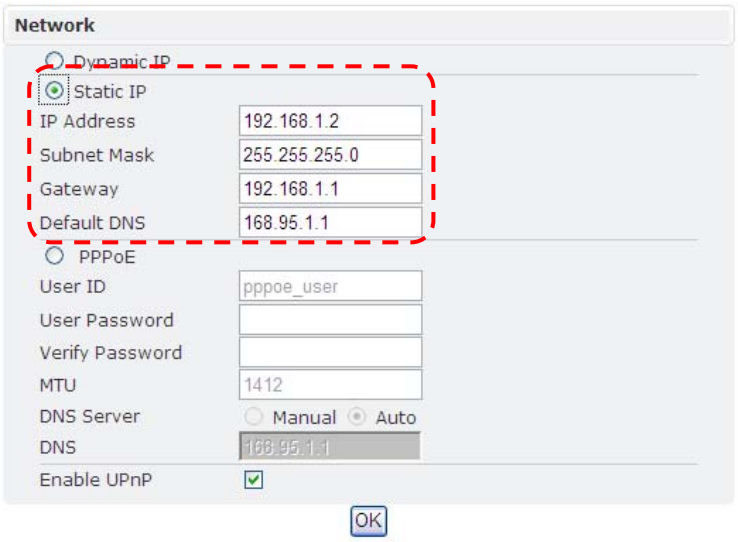
NOTE

*Remember to press "**OK**" after you have changed settings in a particular settings page which has "**OK**" button. After few seconds, you can see a confirmation dialog box informing that settings have been updated. Pressing **OK** will return to the same page.*

NETWORK

Three configuration types are available for wired network connection STATIC, DYNAMIC & PPPoE.

STATIC IP



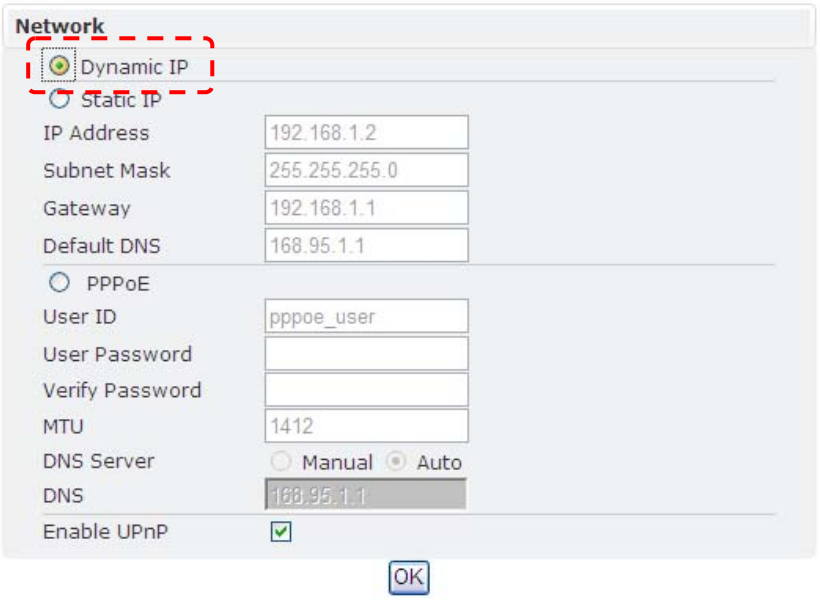
- IP Address
  - Confirm with network administrator.
- Subnet Mask/Gateway/Default DNS
  - Confirm with network administrator.

- Always click "**OK**" to save changes in a particular page.
- Reboot is required and will be automatically triggered after you press "**OK**". Wait for count down timer to finish and page will refresh automatically and you should see initial login page.

Note:

Always use EtroScan™ to find the MAC address after reboot and double check the IP address is correct. If IP was changed in web configuration, you cannot return to initial login page after reboot.

DYNAMIC IP

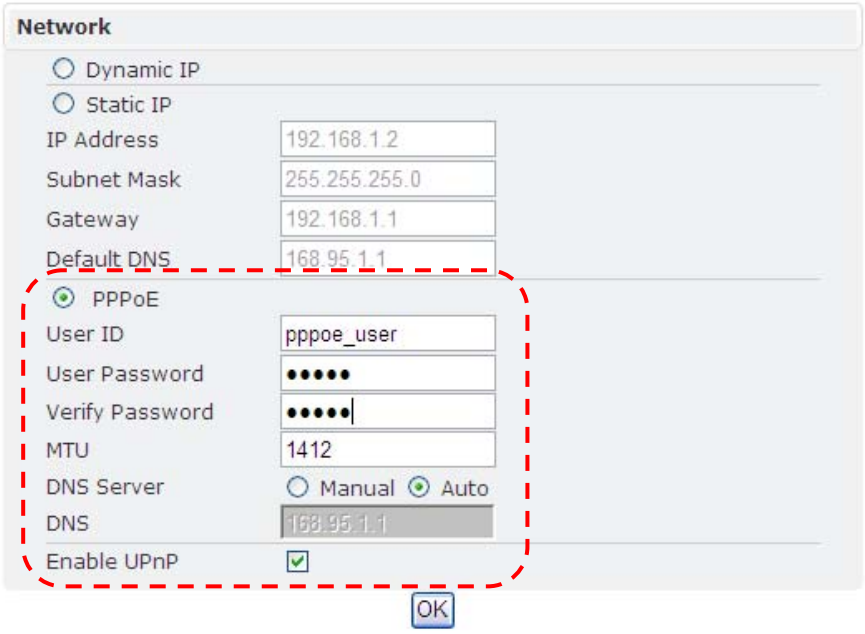


- If DHCP server is on LAN and you want to allocate Dynamic IP address, use DHCP.
- Click "**OK**" button.
- Reboot is required and will be automatically triggered after you press "**OK**". Wait for count down timer to finish and page will refresh automatically and you should see initial login page.

Note:

Always use EtroScan™ to find the MAC address after reboot and double check the IP address is correct. If IP was changed in web configuration, you cannot return to initial login page after reboot.

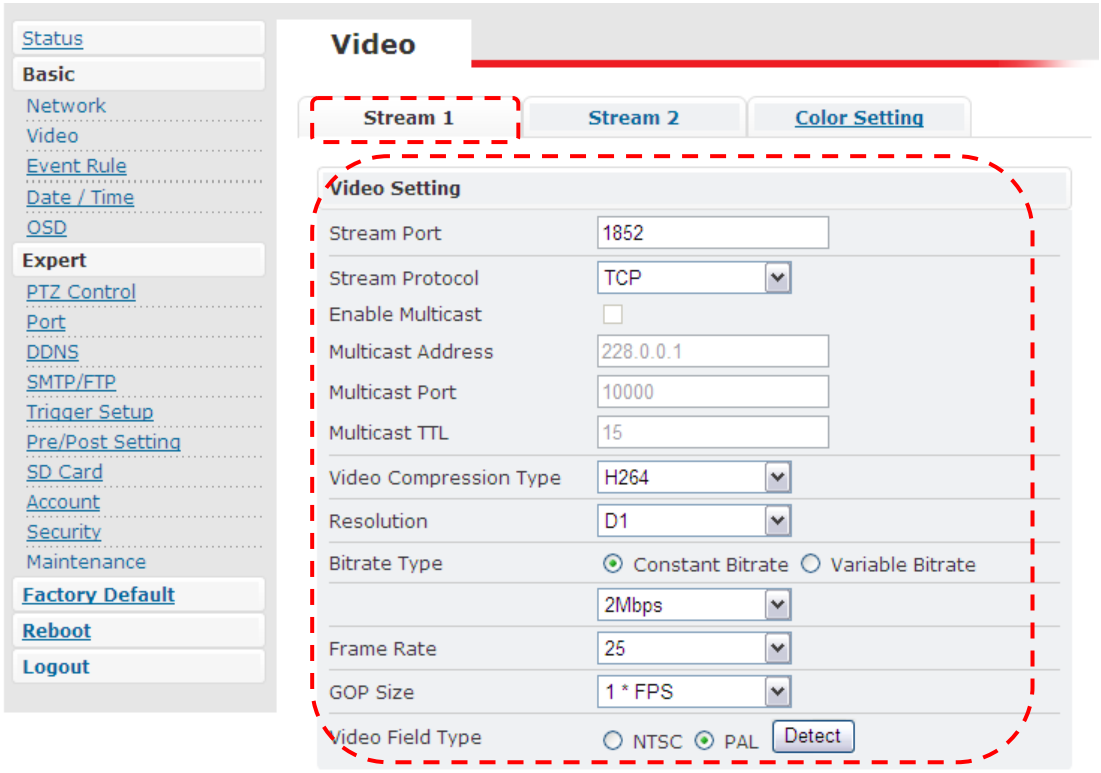
PPPoE SETTINGS



- PPPoE is used in case network supports PPPoE like xDSL
- Request Internet Service Provider for PPPoE ID/Password
- User ID / Password
  - PPPoE user ID / Password
- Service Name
  - Service name of ISP
- MTU
  - Maximum transmission unit of data
- IP address of DNS sever can be set to be created automatically.
- If xDSL does not use static IP, you should use DHCP.

VIDEO

Stream 1

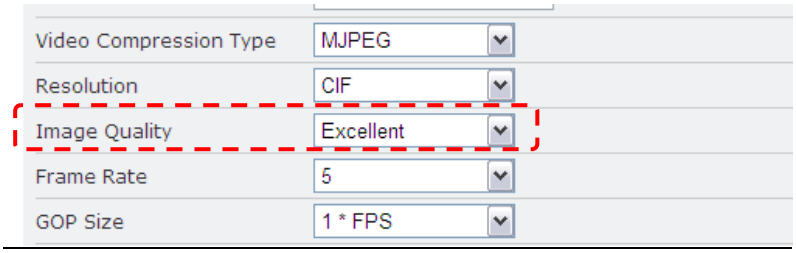


VIDEO SETTINGS

- Stream Port
  - Stream 1 port value setting
- Stream Protocol
  - TCP/UDP(RTP) selectable
  - When UDP selected, user can decide whether or not to enable multicast function
- Video Compression Type
  - H264/MJEPG / MPEG4 format selectable
- Resolution
  - D1/CIF /QCIF selectable

- Bit rate Type
  - Constant and Variable bit rates control allows flexibility in choosing how much bandwidth is available on network and quality of video required.
- Constant Bit rates
  - 4M / 3M / 2M / 1.5M / 1M / 750K / 500K / 384K / 256K / 128K / 64K

***When compression type choose "MJEPG", only image quality can be selectable, no bit rate value parameter*



- Variable Bit rates
  - 2 ~ 31 (quality is best in case value is "**3**")
- Frame per Second.
  - 1 / 5 / 10 / 15 / 20 / 25 / 30
- Group Size
  - Adjusts the ration between "I" frames and "P" frames. Lower the group size, lower bandwidth consumption.
- Video Type
  - NTSC / PAL

***System can automatically detect input video signal when clicking detect icon*

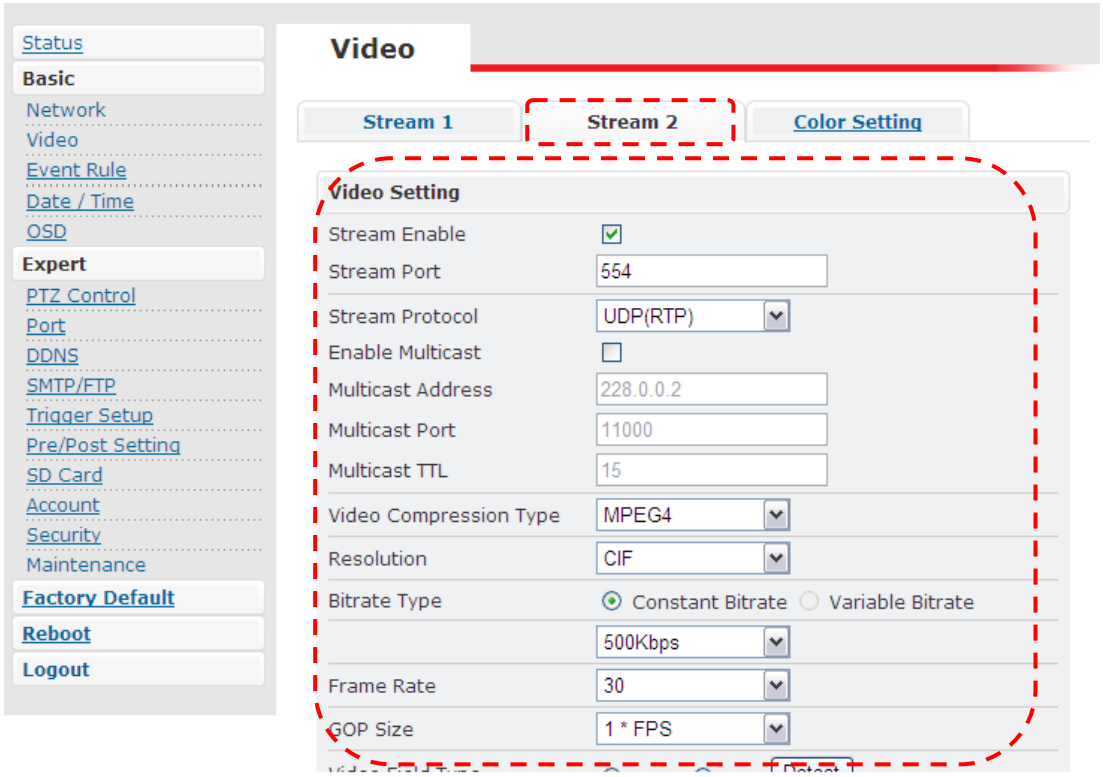
MAX CLIENT LIMIT

Maximum users (client) limit allows users accessing the video stream.

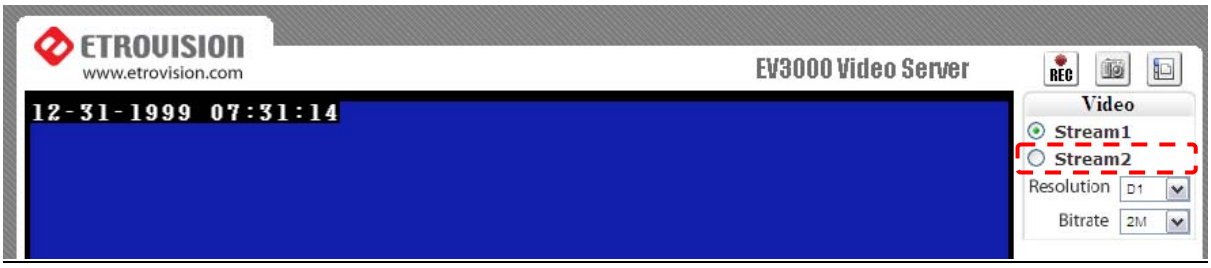
For higher bit rates and resolution, the client limit is much lower and vice versa.

- Maximum number of clients can be restricted depending on how much video quality is required and network band with is available.
  - 0 ~ 10 (value 0 means maximum allowable)

Stream 2

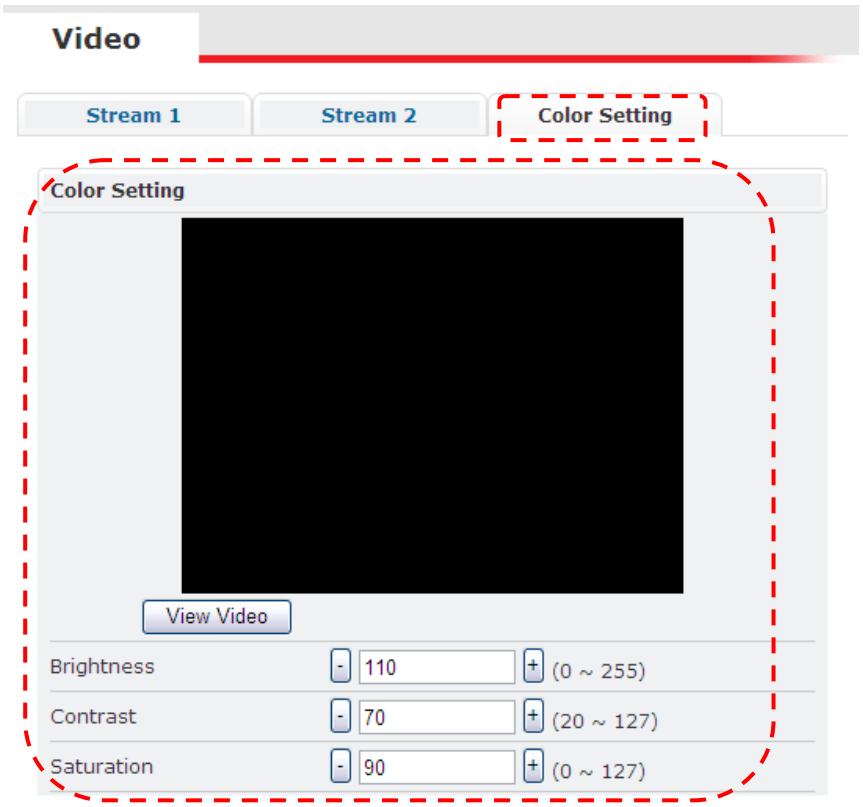


- All setting within stream 2 are the same as ones in stream 1; administrator can enable/disable stream 2 and see live video in “Live View” page



COLOR SETTINGS

Fine adjustments to video quality can be made using more detailed settings as shown below.



BRIGHTNESS

Adjusts the image on a scale from darkness to brightness.

CONTRAST

Adjusts the extent to which adjacent areas on a video differ in brightness

SATURATION

Adjusts the chromatic purity of video thereby effecting vividness.

HUE

Adjusts the video by effecting color depth

VIDEO PREVIEW

Preview makes choices easier when tuning video settings for specific locations. By clicking the **View Video** button, you can see the following

Click **Stop** to exit preview. You could change other video parameters and press **TEST** to see how the changes look like. You can press **Reset** anytime to return back to the default settings. Click **Enable Preview** checkbox to save the current settings – and its takes effect right after settings have been changed.

DO NOT FORGET TO PRESS "OK" BUTTON TO SAVE YOUR SETTINGS.

EVENT RULE

Basically, EV3130A/AW is capable of handling all standard events. EV3131 having limited input sockets (only PTZ), only handles motion detection, periodic timer, network loss, video loss and power loss.

Events handled by EV3151

1. Motion Detection
2. Periodic Timer
3. Network Loss
4. Video Loss
5. Power Loss

Actions supported by EV3151

1. PTZ Preset
2. E-mail Notification
3. Record (Record to Local SD Card)

	PTZ Preset	Email Notification	Record
Motion Detection	X	X	X
Periodic Timer	X	X	
Network Loss			X
Video Loss		X	
Power Loss		X	

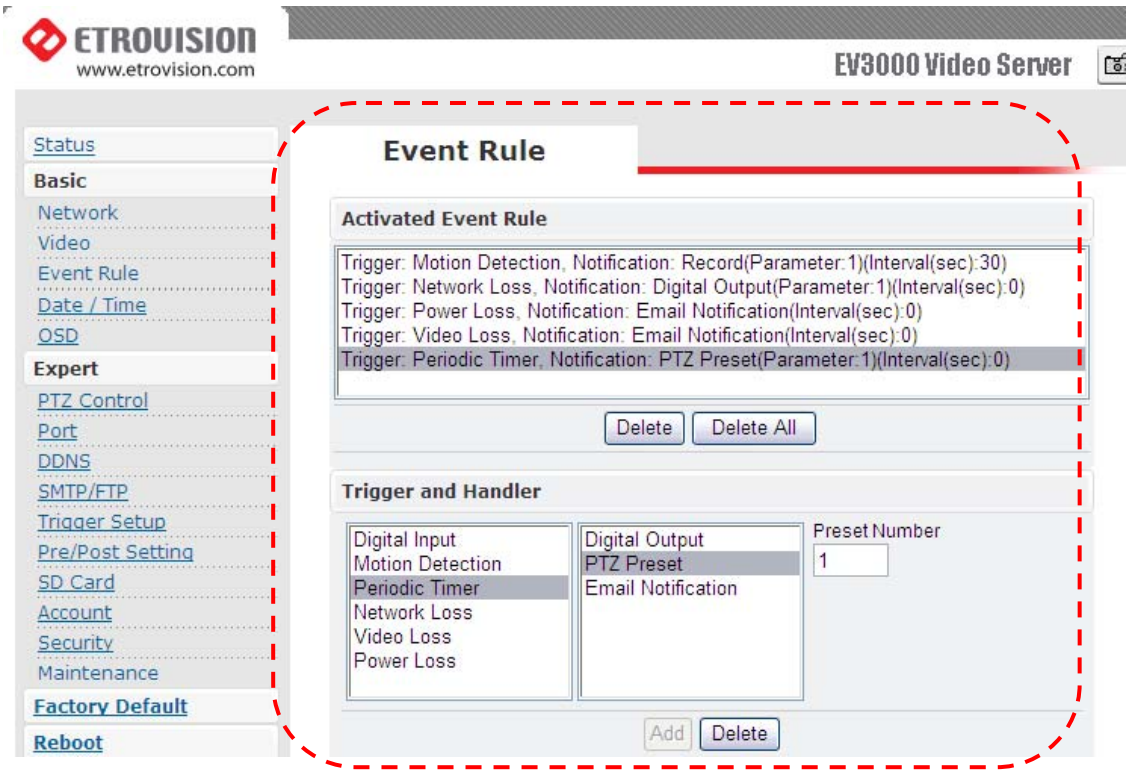
Events handled by EV3151A

1. Digital Input
2. Motion Detection
3. Periodic Timer
4. Network Loss
5. Video Loss
6. Power Loss

Actions supported by EV3151A

1. Digital Output
2. PTZ Preset
3. E-mail Notification
4. Record (Record to Local SD Card)

	Digital Output	PTZ Preset	Email Notification	Record
Digital Input	X	X	X	X
Motion Detection	X	X	X	X
Periodic Timer	X	X	X	
Network Loss				X
Video Loss	X		X	
Power Loss			X	



EVENTS HANDLED

Digital Input

Can choose sensor type either “Normal Open” or “Normal Close”

Motion Detection

If motion is detected on the areas defined on the video stream, an event will be triggered based on the rule lists.

Periodic Timer

In a pre-defined time interval, an event will be triggered based on the rule lists.

Network Loss

When system detect network loss, an event will be triggered

Video Loss

When system detect Video loss, an event will be triggered

Power Loss

When system detect system power loss, an event will be triggered

ACTIONS TRIGGERED

Digital Output

Can active digital output.

PTZ Preset

PTZ set to a particular preset value can be triggered based on occurrence of an event listed out in "***Rule Lists***".

E-mail Notification

E-mail can be sent based on occurrence of an event listed out in "***Rule Lists***".

Record (Record to Local SD)

When event triggered, system will record streaming to plugged SD card.

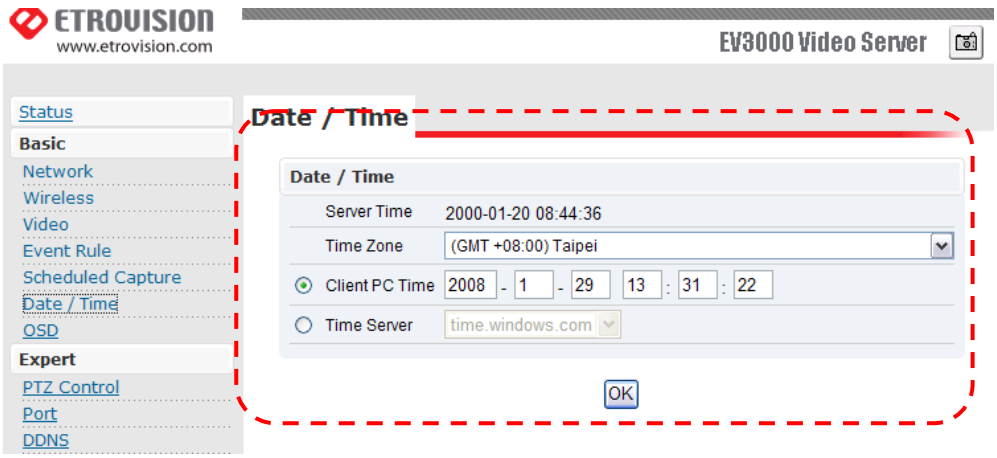
RULE LISTS - ADDING/DELETING

Select an event and select corresponding action. Click **add** button and notice that is added in the **Rule lists** Information box.

MODIFYING RULE LISTS

Rule list items can be deleted individually or wholly by clicking **Delete All** button.

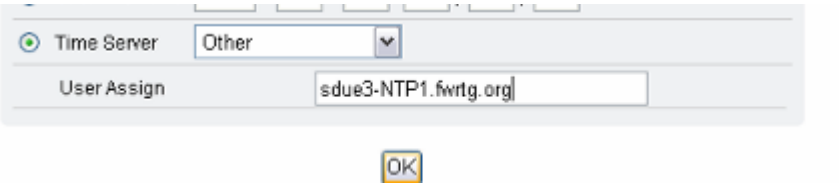
DATE & TIME



- Date and time settings can be synchronized with PC directly by clicking “Client PC time” check box. Click “**OK**” after you have made selection.

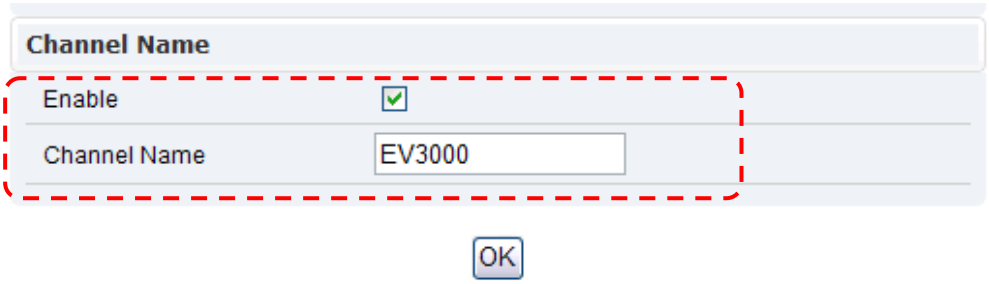
- Time zone can be chosen by choosing either of the two time servers listed
- Either of the two time servers can be chosen to synchronize video server time. They are listed as follows should you choose **Time Server.** Click “**OK**” after you have changed settings.

- If you want to manually input time server, choose “**Other**” then you can find a manual input edit box appear. Key in your preferred time server and click “**OK**”.

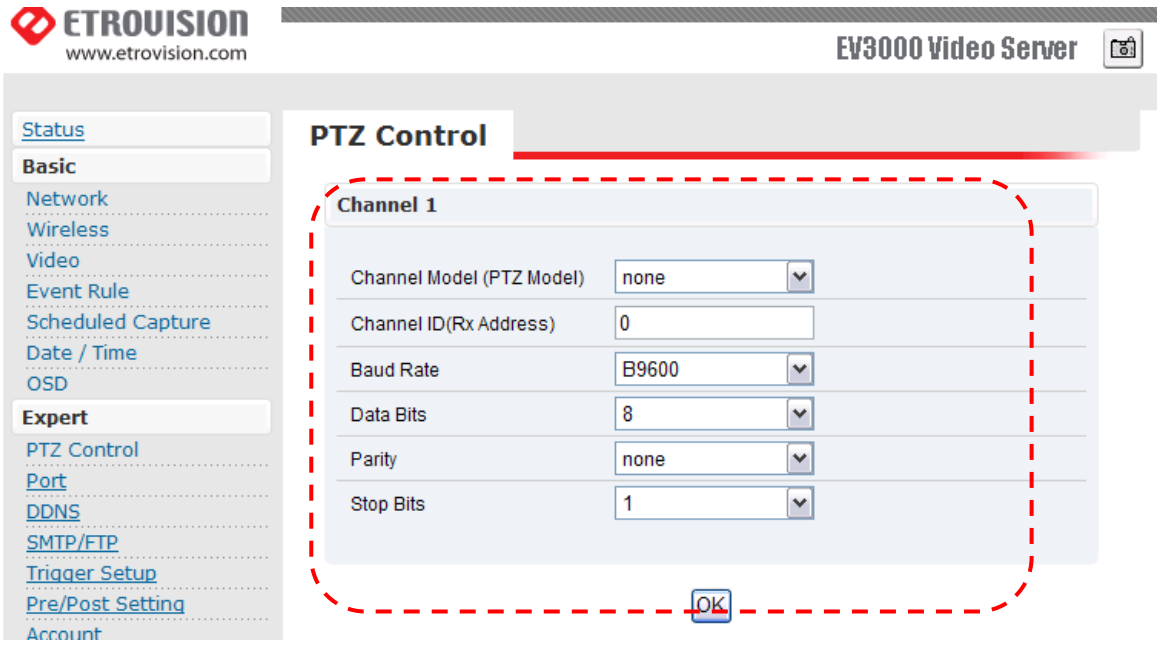


OSD

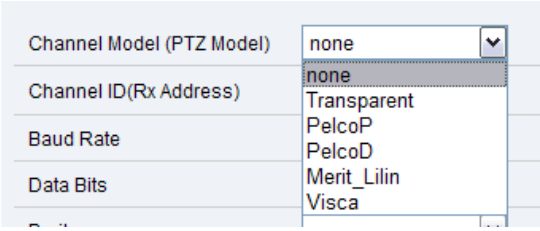
Channel name can be shown/hidden by the channel name "**Enable**" checkbox. It can be manually typed in the "**Channel name**" text box and changes can be noticed.



PTZ CONTROL



- Channel Mode (PTZ model)
  - Default is none.
  - PelcoP / PelcoD / Merit-Lilin / Transparent / Visca /DynaColor

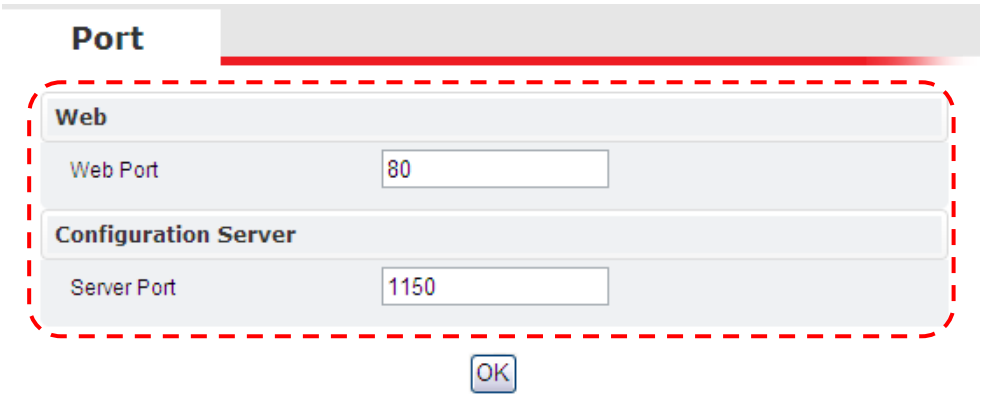


can be chosen.

- Channel ID
  - Give address value - default is zero.
- Baud rate / Data bits / Parity / Stop bits
  - Depending on the protocol used, the values of baud and related settings are to be assigned accordingly.

PORT

The values of WEB and AV port can be changed as necessary.



Web

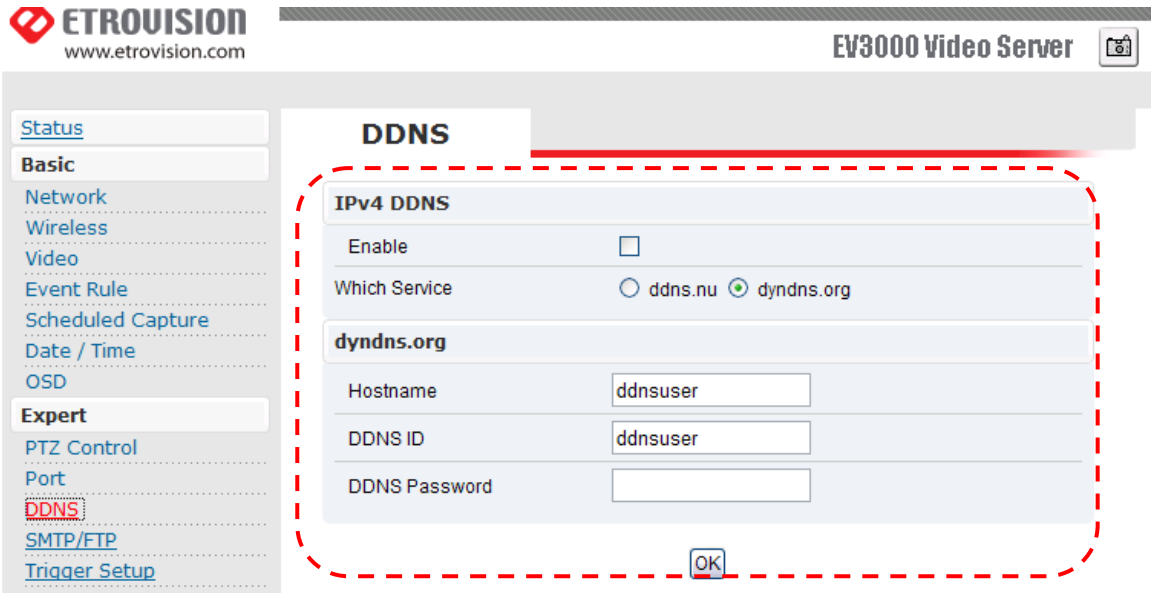
- Web Port default is 80

Configuration Port

- Default server port is 1150 for EtroSDK™ integrated NVR use.

  (Suggest contact your NVR vendor to check this feature)

DDNS

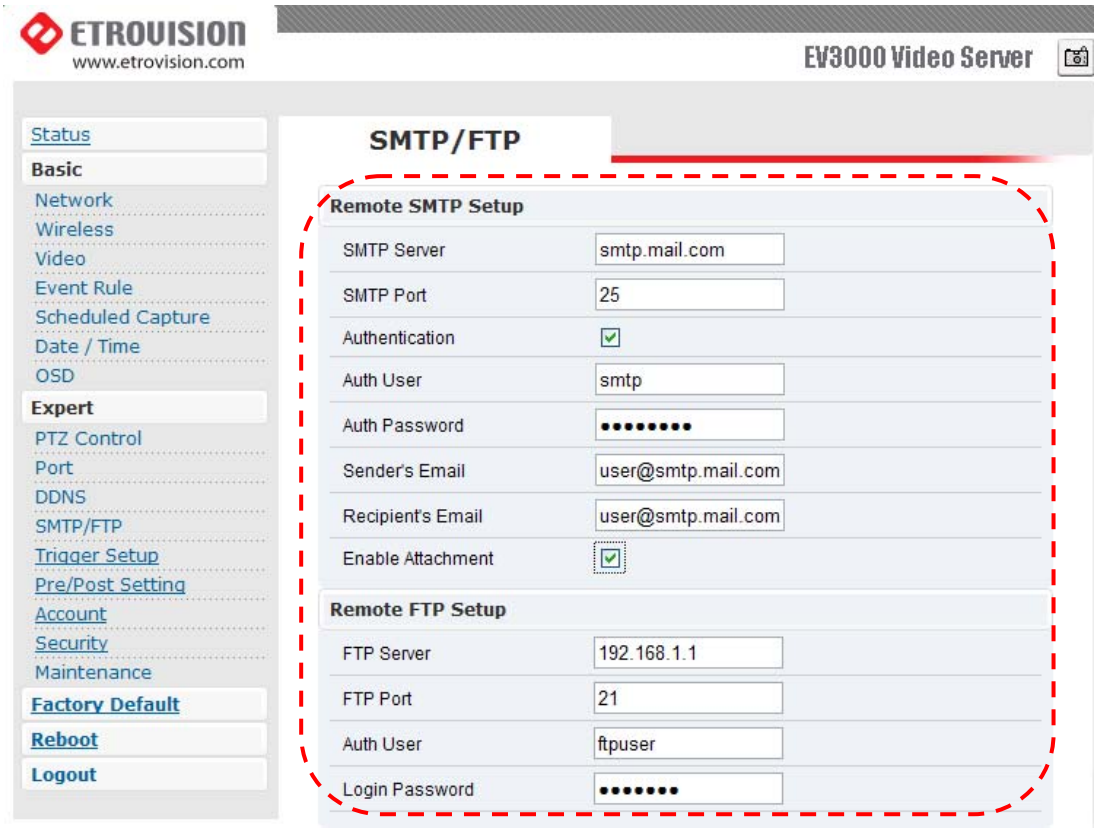


DDNS is the function that maps an IP address to a host name. If EV3151 / EV3151A are set to dynamic IP address, the host name by DDNS (Dynamic Domain Name Service) must be used instead of the IP address for credibility of network connection.

IPv4 DDNS

- Check "**Enable**" and select a service out of available two.
- Both services are required to register some items on each DDNS service site.
- For use of "**ddns.nu**" register at www.ddns.nu and for **dyndns** find the information at dyndns.org

SMTP/FTP



An e-mail notification & FTP upload service offered by EV3151 / EV3151A notifies events or uploads snapshots to a remote FTP server.

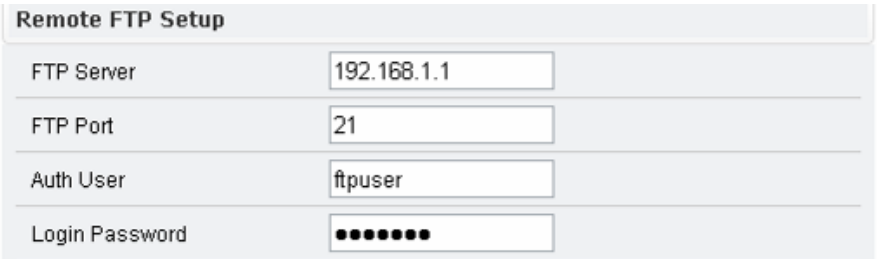
E-MAIL – SMTP SETTINGS

Fill in the details of SMTP server such as port number, user name, password, server name information. If you would wish to send attached snapshots, please check the appropriate check box.

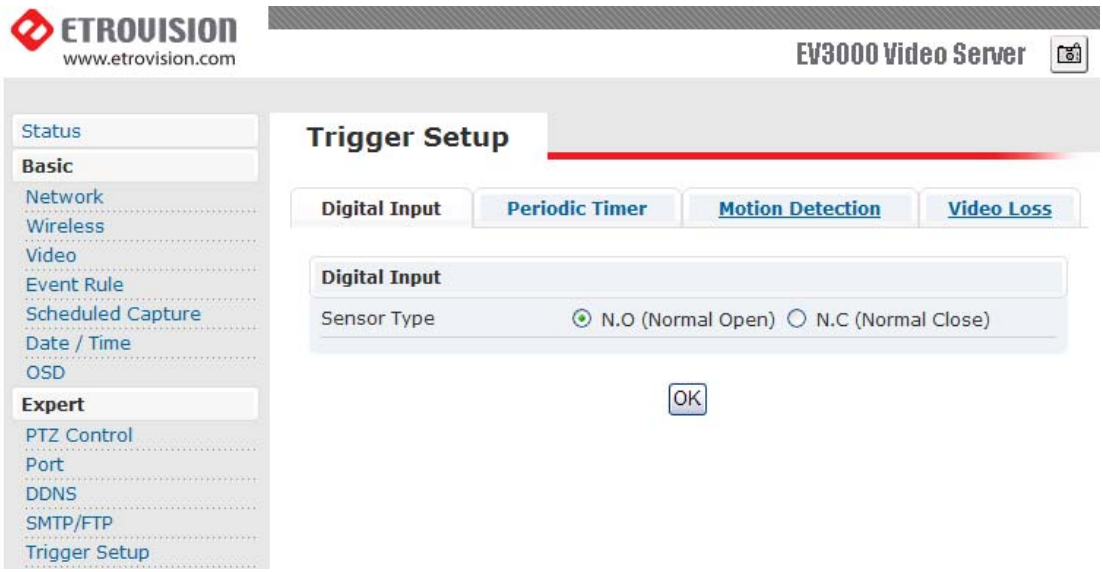
Sometimes Authentication is not always required by SMTP servers. Wherein only the SMTP server name and e-mail address details are enough to be input.

FTP SETTINGS

Fill in the details of remote FTP server, port number and user name, password.



TRIGGER SETUP



Three different types of EVENTS can be configured.

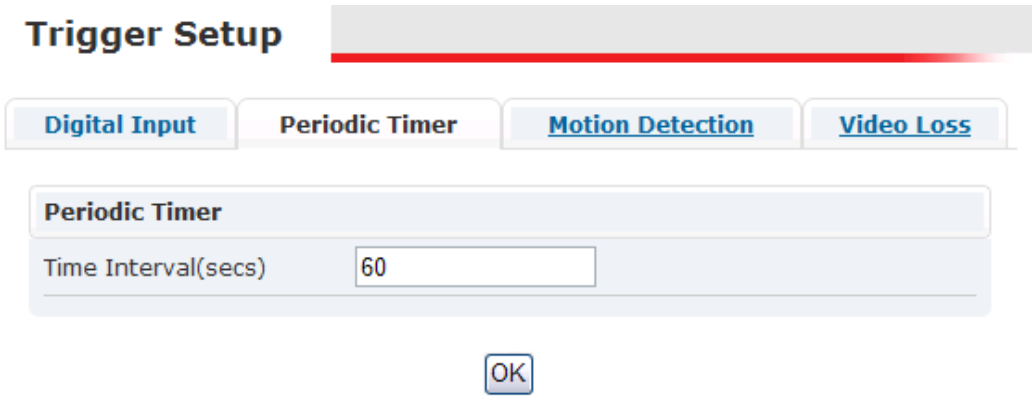
Digital INPUT

Can be **Normal OPEN (N.O)** or **Normal Close (N.C)**

Choose based on the type of input and press **OK** to save the settings.

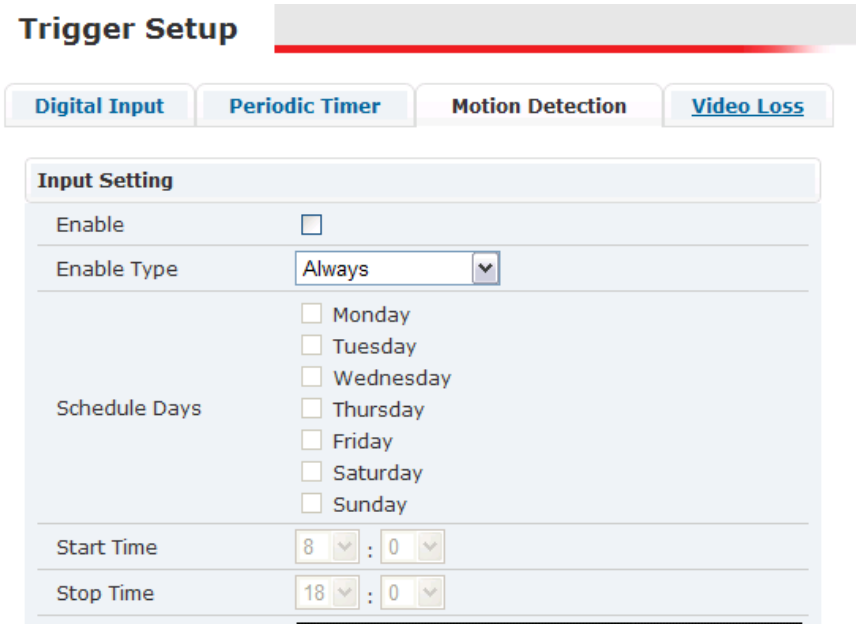
PERIODIC TIMER

Timer interval can be set in terms of seconds. This will trigger an event when the time out is achieved.



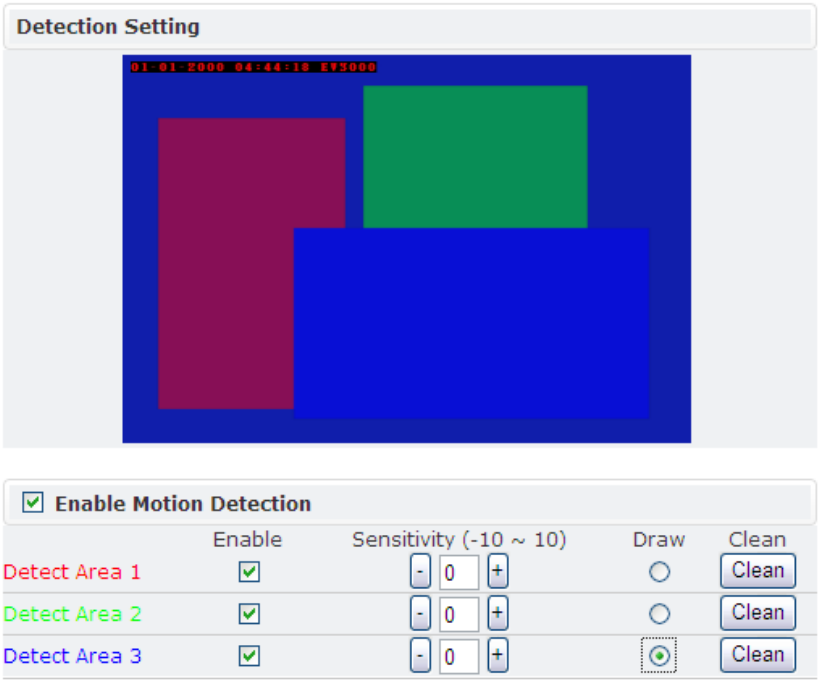
MOTION DETECTION

- Enable type
  - Can enable motion detection by “always” or “schedule” mode
  - When choosing schedule mode, define schedule day and start/end time



➢ Detection Area

■ Enable/Disable Motion Detection by click check box; administrator can self-configure up to 3 detection areas. Click area enable check box and draw icon, then draw desired area within top preview window; draw area will changes to specific color.



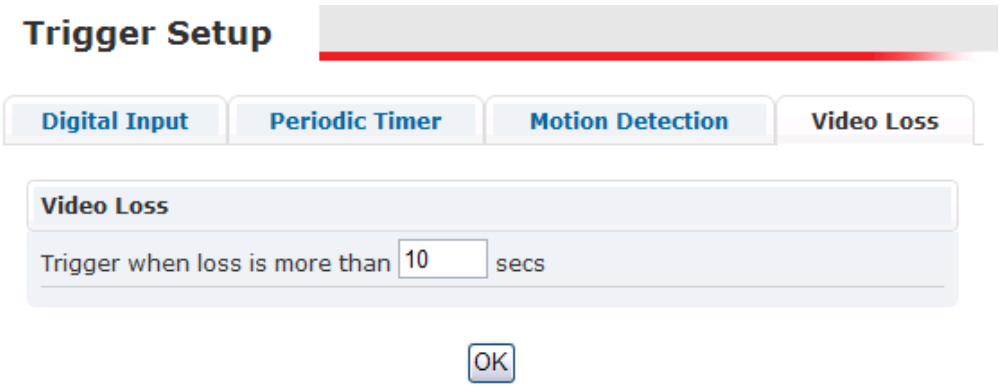
➢ Sensitivity value

- Defines sensitivity of the motion detection. The range of the value is -10 to 10.

***Lower sensitivity value, higher sensitivity level*

Video Loss

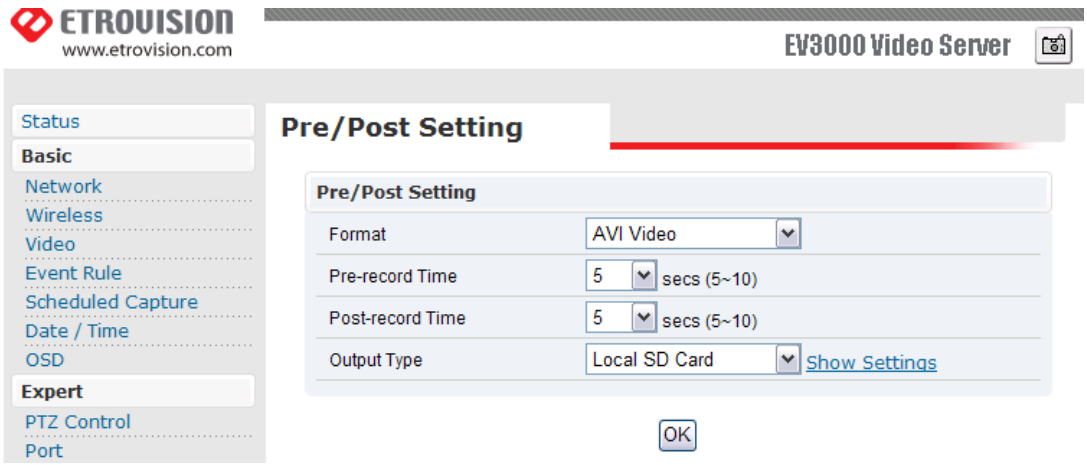
Can config how much time system should trigger an event for video loss



PRE/POST SETTING

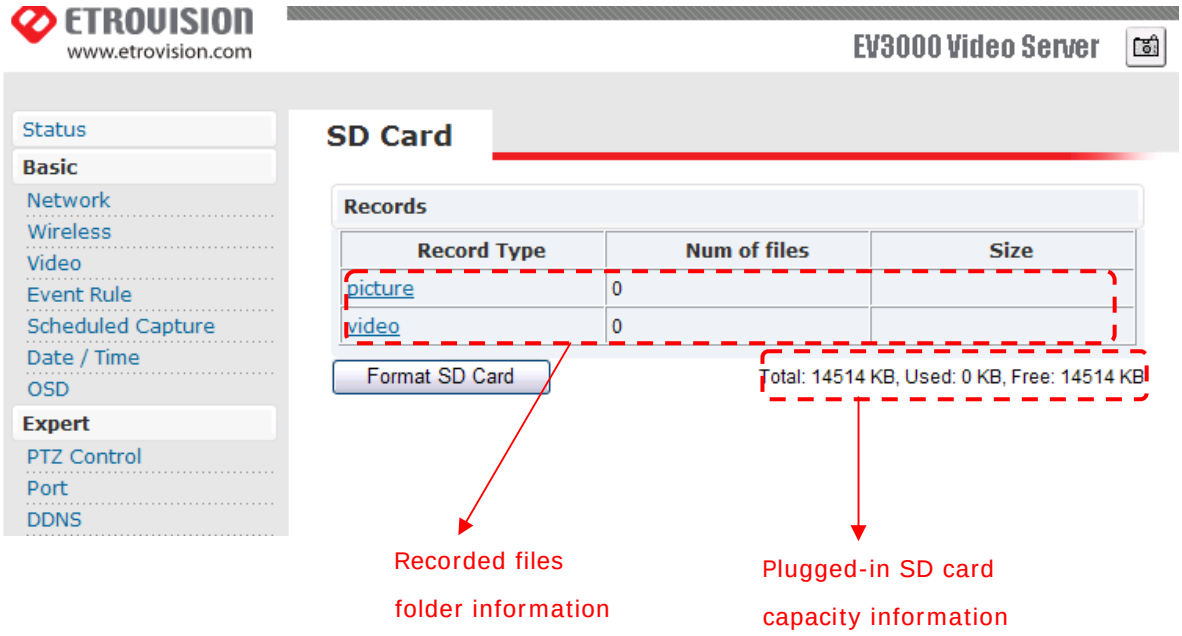
These parameters decide Pre/Post buffer stream format type and duration.

Administrator can choose format as “AVI Video” or “JPEG Picture” with Pre/Post time duration



SD CARD

Only EV3130A/AW support SD card interface, system will show current SD card capacity information if SD card is plugged in socket well.



- Format SD Card

  - Click this icon, system will automatically format SD card and create “picture” & “video” folders.
- View recorded picture
  - If SD stored recorded picture files, enter picture link and choose which picture file you desire to view. You will view picture via image viewer SW (ie. Windows Image Viewer)
- Playback recorded video
  - If SD stored recorded video files, enter video link and choose which picture file you desire to playback; Windows will guide you to open/download video file (.AVI format) so that you can playback file via video decoder SW (ie. Windows Media Player)

Note: *Following SD card are fully evaluated in Etrovision engineering lab for compatibility test*

SD 1.1

- *Sandisk 512MB*
- *Transcend 1GB*
- *ADATA 2GB*
- *Sandisk 2GB*

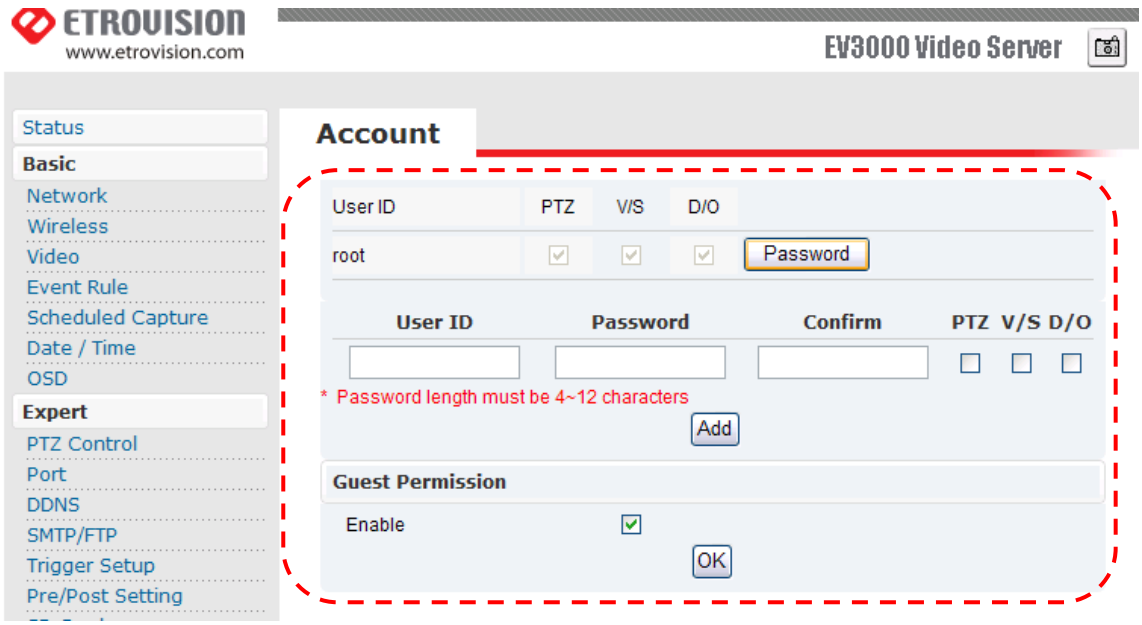
SD 2.0

- *ADATA SDHC 4GB*
- *Transcend SDHC 4GB*
- *Transcend SDHC 8GB*

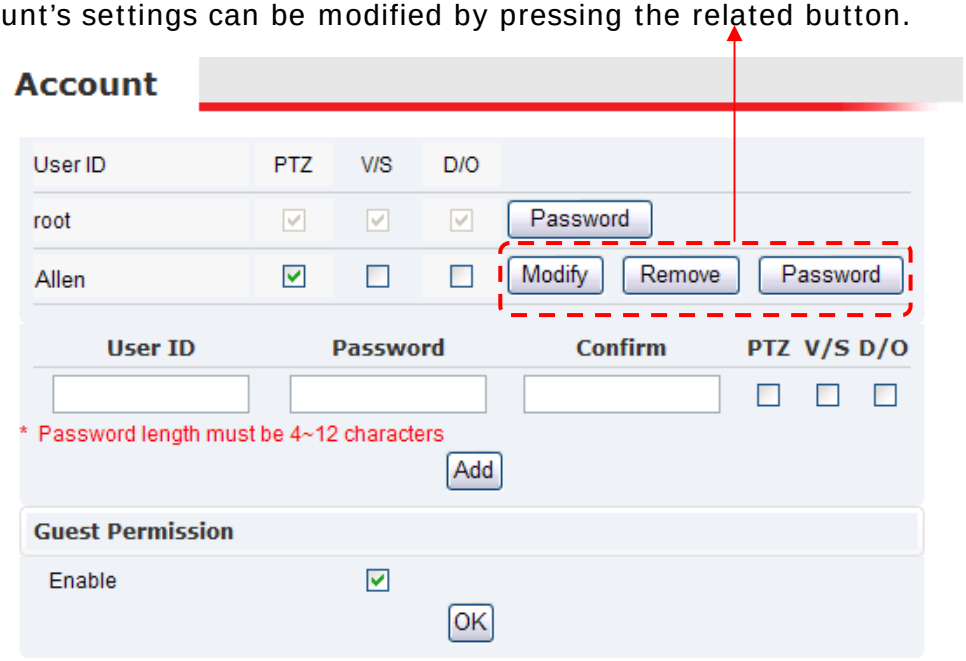
ACCOUNT

Administrator can create user accounts. Login as an administrator and create user accounts by pressing "**Add**". Each account has PTZ, Video settings and Digital Out privileges. They can be turned on or off anytime by the administrator.

There are limits on user name and password length and will be notified by dialog boxes if the user name/password exceeds or under-runs that limit.



For each account, guest permissions can be turned ON/OFF. Any time, an account's settings can be modified by pressing the related button.



Administrator account can also be modified by the same modify button. Changing password needs confirmation.

Account Limitations

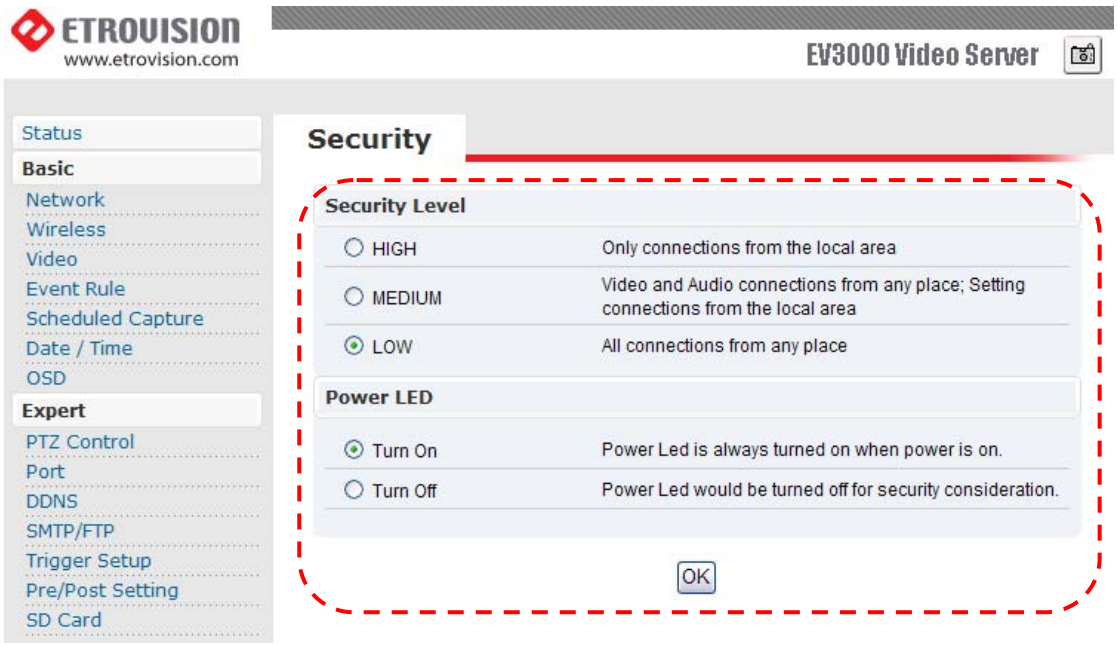
- Administrator can add up to a maximum of 5 users and assign properties for each of them.

Guest Permissions

- Guest account can be turned ON/OFF anytime.

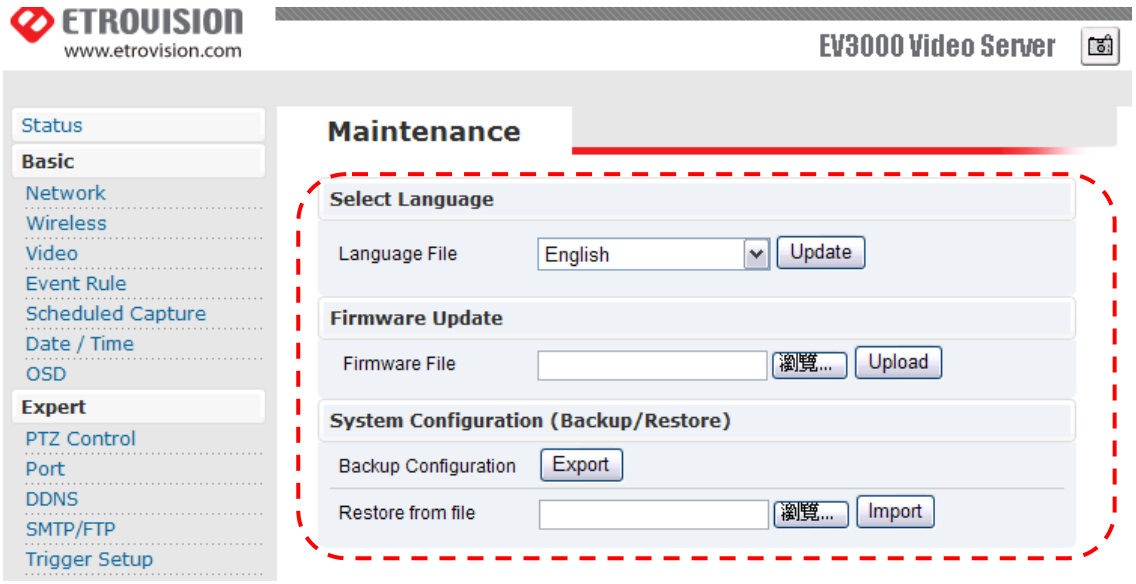
SECURITY

The basic settings are **LOW** by default.

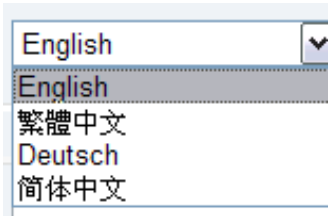


- Security Level
  - HIGH
    - ONLY LAN connections are allowed.
  - MEDIUM
    - Video and audio connections from any location and settings from LAN are permitted.
  - LOW
    - All connections from any location are permitted.
- Power LED
  - Turn On
    - Default value, power LED will always be on during operation.
  - Turn Off
    - Config power LED as off during operation.

MAINTENANCE



Language



- Default settings are in English. Another choices are :
  - Traditional Chinese
  - Deutsch
  - Simplified Chinese

Firmware update

- Firmware update binary file can be obtained from Etrovision Technology. Choose that and click **upload**. When uploading is done, reboot is required and will be automatically triggered.

  CAUTION

  DO NOT power off during upgrade process, follow system dialog to finish upgrade procedure

System Configuration (Backup/Restore)

- You can backup current configuration profile as a file and restore any stored configuration profile.

9. FACTORY DEFAULT

After a confirmation dialog box, clicking **OK** button, will load default settings and do a reboot. You will see the reboot countdown timer running. Once done, you will see the login page. Please login with root/pass.

10. REBOOT

If you click **OK** on the dialog box, you will see the reboot countdown timer running. Once done, you will see the login page. Please login with root/pass or other appropriate login information.

11. LOGOUT

To return to the login screen, simply click **logout**. You should see yourself in the login page within seconds.

12. ETROLINK™ Config Port - FIRST TIME EXPERIENCE

If video server has to be quickly configured or has to be set to factory default settings, Etrolink™ config port is used to achieve that. Etrolink™ config port is a special USB port.

Insert mini USB cable onto Etrolink config port and connect other end to PC. When video server is powered on, Etrolink will not be operational. Once you are done working with Etrolink™ config port, remember to unplug USB cable from Etrolink™ config port.

NOTE

REMOVE USB CABLE WHEN YOU ARE FINISHED WITH QUICK CONFIGURATION.

SUPPORTED OS

PC running the following operating systems can support auto run of **Quick Config** application.

1. Windows XP (all editions) - auto run.
2. Windows 2000 (all editions) – needs to be manually run.
3. Windows 98 (SE) – needs to be manually run

   (Generic USB mass storage class driver (Microsoft) will be requested – prepare one in prior if you plan to use Etrolink™ based device recovery on Windows 98)

NO SOFTWARE INSTALLATION REQUIRED

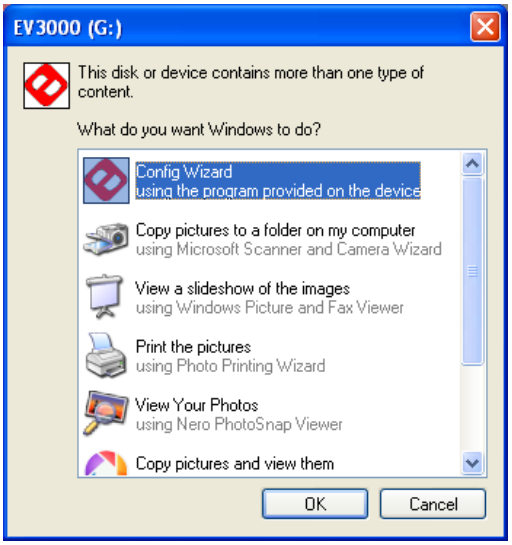
There is no installation or setup of any software for Windows XP/2000 platforms.

STEPS FOR USING ETROLINK™ config port (*Windows XP PC*)

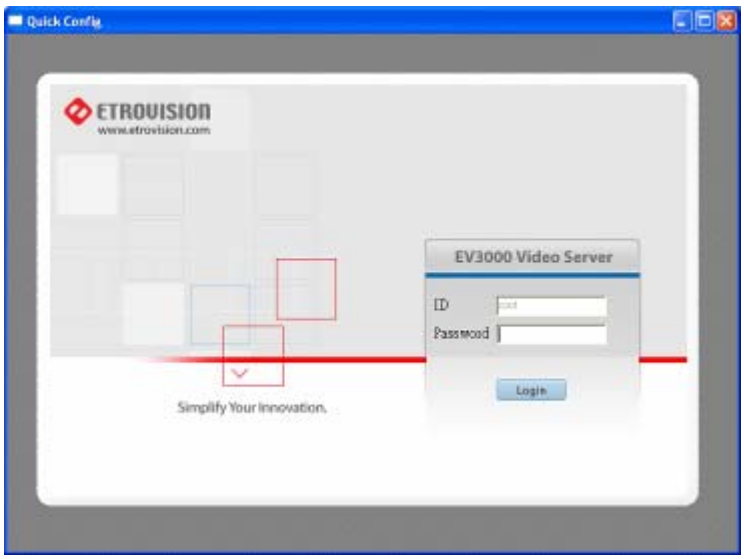
1. Disconnect **power cable** connected to EV3151 / EV3151A.
2. Use mini-USB cable and connect appropriate end to Etrolink™ config port and connect other end to PC USB port.

3. After 5 ~ 10 seconds depending on how fast your PC is, you can notice "**Disk drive**" being detected.

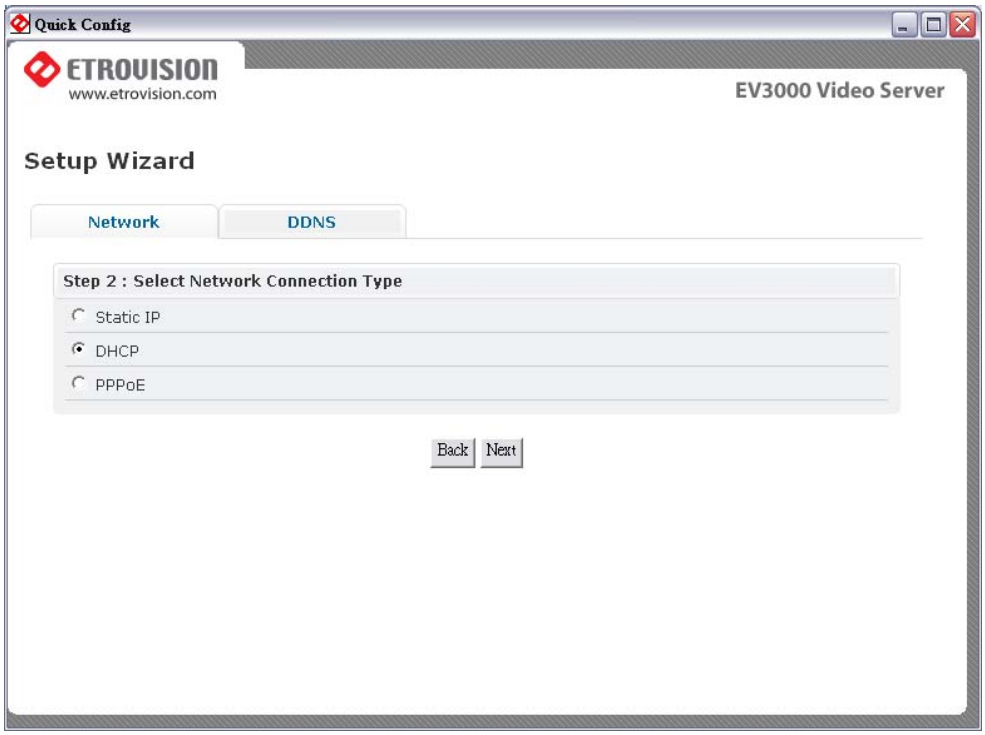
4. A POP-UP dialog shows "**Config Wizard**" is ready to run. Press OK.


EV3000 (G:)
This disk or device contains more than one type of content.
What do you want Windows to do?
Config Wizard
using the program provided on the device
Copy pictures to a folder on my computer
using Microsoft Scanner and Camera Wizard
View a slideshow of the images
using Windows Picture and Fax Viewer
Print the pictures
using Photo Printing Wizard
View Your Photos
using Nero PhotoSnap Viewer
Copy pictures and view them
OK
Cancel

5. Double click Config Wizard. You will see a screen as follows.



You will be asked for password. Earlier, if you have never changed the password for user **root**, please type **pass** as the password. Then click **login** button. If you input wrong password, you will get this dialog box.



If you would wish to change network settings of either

STATIC / DHCP / PPPoE

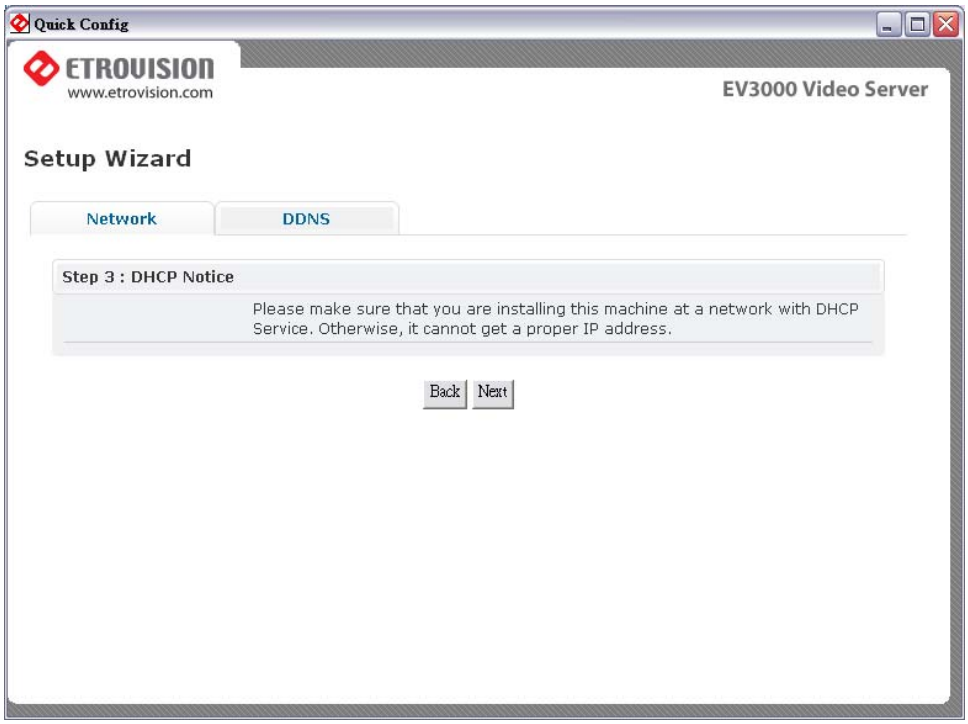
If you would want to setup **DDNS**, please click on the same for detailed configuration.

Return to Network page to setup network further.

Please choose and click **next** for detailed configuration page.

For instance, shown below is a screen which has **STATIC**

network configuration page. Click next to proceed.



Clicking next will show that settings are saved. You can click finish if you are done or go back or change other settings. Similarly you can change other settings at ease.

Note:

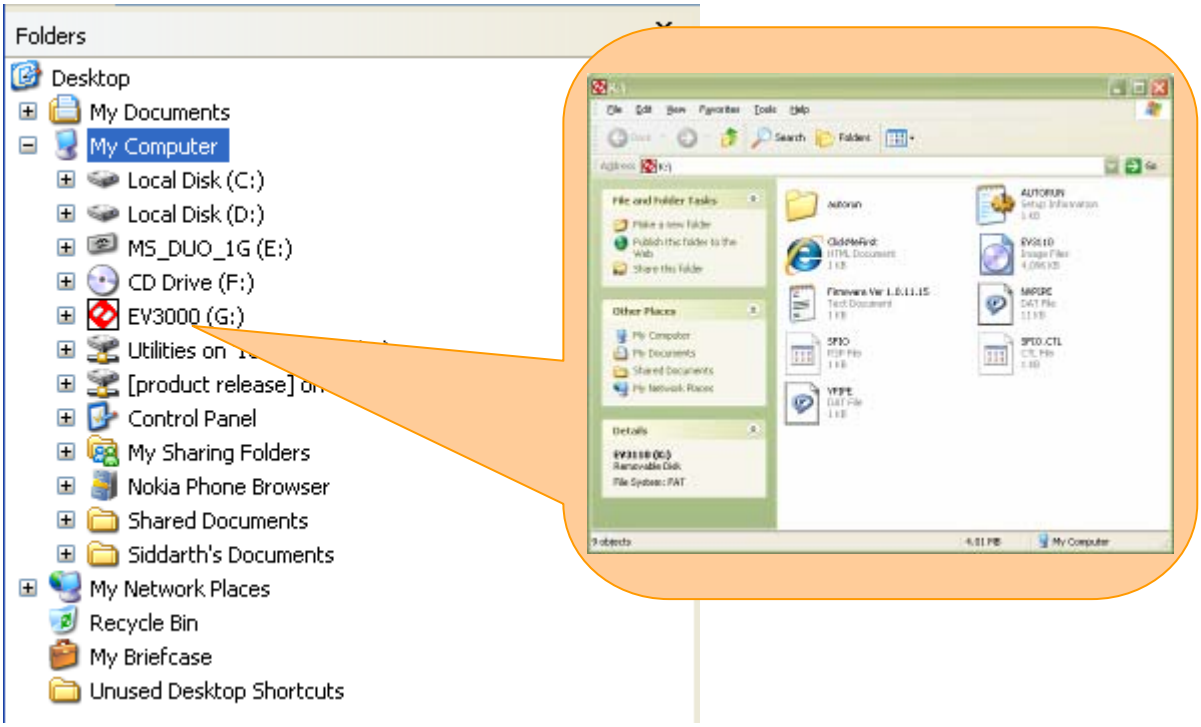
- *Connect EV3151 / EV3151A to your network by using a standard Cat-5 cable.*
- *Connect the video output of your camera with video in of video server, using standard 75Ω coaxial cable with BNC type connector.*

- *Connect speaker and active microphone to Audio Out/In.*

WHAT IF **QUICKCONFIG** DOES NOT AUTORUN?

In some PC, after connecting USB cable with Etrolink™ port, there might not be auto run of Quick Config application.

In that case, just open disk drive which looks like shown on screenshot below. It should have volume name starting with EVxxxx.



Open up a folder named "**autorun**". That folder contains a HTML executable file named "**autorun**". Double click that to run. You will find that it is the same "**Quick Config**" application is running. See the screenshots below to find that file on the disk drive.

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